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Subject: Re: Interpolated surfaces

Posted by [Janet-DHS](#) on Wed, 10 Aug 2022 20:25:55 GMT

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Following is a response from DHS Research & Data Analysis Director, Tom Pullum:

On July 13 I gave you the Stata code to do this. I will repeat it below. Perhaps you do not know that every case in a cluster has exactly the same weight. There is no need to weight the proportion WITHIN the cluster. Also, the lines I gave you will give weights that include a factor of 1000000. If you don't want that factor, you can insert a line "gen wt=v005/1000000" after the "label list" line and then replace "v005" with "wt" in the two places where "v005" appears.

If your question is about how to include the weight in the analysis of interpolated surfaces, that will depend on the software you are using. If the software does not have an option for weights, then you have no option other than ignoring the weights.

```
describe h11
```

```
tab h11
```

```
label list H11
```

```
gen nch_diarrhea_yes=1 if b9==0 & (h11==1 | h11==2)
```

```
gen nch_diarrhea_no =1 if b9==0 & h11==0
```

```
collapse (first) v005 (sum) nch_diarrhea*, by(v001)
```

```
gen nch_diarrhea=nch_diarrhea_yes + nch_diarrhea_no
```

```
gen prop_diarrhea=nch_diarrhea_yes/nch_diarrhea
```

```
gen wt_diarrhea=v005*nch_diarrhea
```

```
summarize
```

```
histogram prop_diarrhea
```